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FESTOOL

Instruction manual

Page 3

IMPORTANT: *Read and understand all instructions before using.*

Guide d'utilisation

Page 11

IMPORTANT: *Lire et comprendre toutes les instructions avant de démarrer les travaux.*

Manual de instrucciones

Pagina 20

IMPORTANTE: *Lea y comprende todas las instrucciones antes de usar.*

Instruction manual
Guide d'utilisation
Manual de instrucciones

ETS 150/3 EQ

ETS 150/5 EQ



701021_005



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Safety rules

General safety instructions



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1 WORK AREA SAFETY

- Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2 ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3 PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves**

away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4 POWER TOOL USE AND CARE

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles dry, clean and free of oil and grease.** Slippery handles do not allow for safe handling and control of the tool in unexpected situations.

5 SERVICE

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Machine-related safety instructions

- **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- **Harmful/toxic dusts can be produced during your work (e.g. lead-containing paint, some types of wood).** Contact with these dusts, especially inhaling them, can represent a hazard for operating personnel or persons in the vicinity. Comply with the safety regulations that apply in your country. Connect the electric power tool to a suitable extraction system.



To protect your health, wear a P2 protective mask.



Always wear protective goggles to protect against sanding hazards.

- **Prevent liquid polish from entering the machine.** The penetration of liquid polish into the electric power tool increases the risk of an electric shock.
- **If the power tool is dropped or falls, check for damage to the machine and sanding pad. Remove the sanding pad for closer inspection. Repair damaged parts before using again.** Broken sanding pads and damaged machines can cause injuries and machine instability.

Health hazard by dust

⚠ WARNING Various dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products,
- Arsenic and chromium from chemically-treated lumber.

The risk from these exposures varies, depending on how often you do this type of work.



To reduce your exposure to these chemicals work in a well ventilated area and use approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash hands after handling.

⚠ WARNING TO REDUCE THE RISK OF INJURY, USER MUST READ INSTRUCTION MANUAL.

Technical data

Wattage	310 W
No load speed	6 000 - 10 500 rpm
No. of strokes	12 000 - 21 000 spm
Sanding stroke	
ETS 150/3 EQ	3.0 mm (0.12 in.)
ETS 150/5 EQ	5.0 mm (0.20 in.)
Sanding base diameter	150 mm (5.9 in.)
Weight	1.8 kg (4.0 lbs.)
Safety level	□/II

V	Volts
A	Amperes
Hz	Hertz
W	Watt
~	Alternating current
n_0	No load speed
□	Class II Construction
rpm	Revolutions per minute
min^{-1}	Revolutions per minute
spm	Strokes per minute
∅	Diameter

Symbols



Warning of general danger



Read the Operating Instructions/Notes!



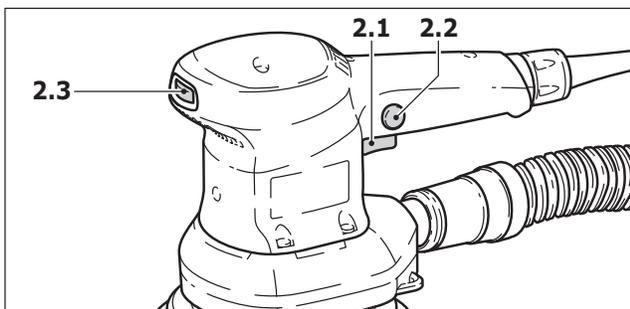
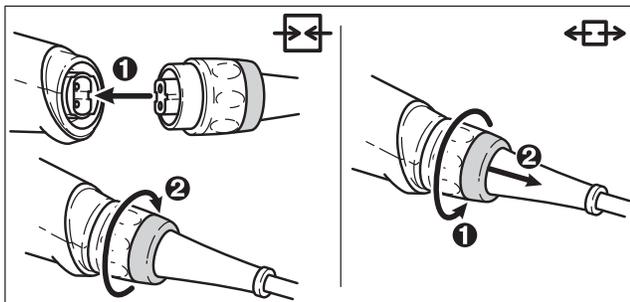
Wear protective goggles



Wear ear protection



Wear a dust mask



Intended use

The sanders are designed for sanding wood, plastic, composite materials, paint / varnish, filling material and similar materials.

Metal and materials with an asbestos content must not be processed with these tools.

⚠ WARNING The user bears sole responsibility for any damage or accidents resulting from incorrect use.

Electrical connection and operation

The mains voltage must correspond with the voltage on the rating plate!

See the adjacent figure for connection and disconnection of the power cord.

⚠ WARNING Always switch the machine off before connecting or disconnecting the power cable!

Switch (2.1) is an on/off switch. For continuous use it can be engaged with the lateral locking button (2.2). Pressing the switch again releases the lock.

Extension cord

If an extension cord is required, it must have sufficient cross-section to prevent an excessive drop in voltage or overheating. An excessive drop in voltage reduces the output and can lead to failure of the motor. The table below shows you the correct cord diameter as a function of the cord length for the ETS 150/3 EQ, ETS 150/5 EQ.

Total Extension Cord Length (feet)	25	50	100	150
Cord size (AWG)	18	16	16	14

Use only U.L. and CSA listed extension cords. Never use two extension cords together. Instead, use one long one.

Note: The lower the AWG number, the stronger the cord.

Tool settings

⚠ WARNING Always remove the power plug from the socket before carrying out any work on the power tool.

Electronic control

You can regulate the speed steplessly between 6000 and 10500 rpm using the adjusting wheel (2.3). This lets you optimize the sanding speed to suit the material (see "Working with the tool").

Dust extraction

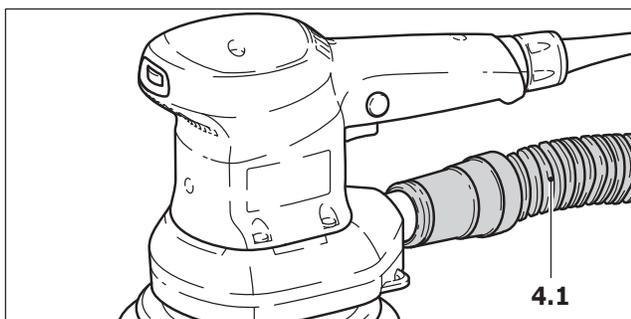
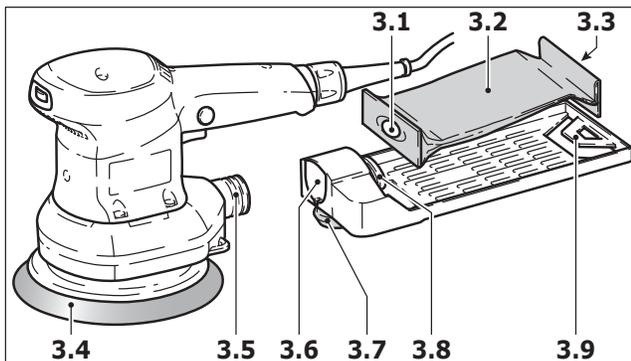
Dust extractors prevent large accumulations of dust in the air in the working environment and dirt collecting in the workplace.

Turbo-filter (partly accessories)

The sanding dust is extracted through suction openings in the sanding base (3.4) and trapped in the turbo-filter (3.2).

The turbo-filter has to be changed when it is so full of dust that the extraction power diminishes:

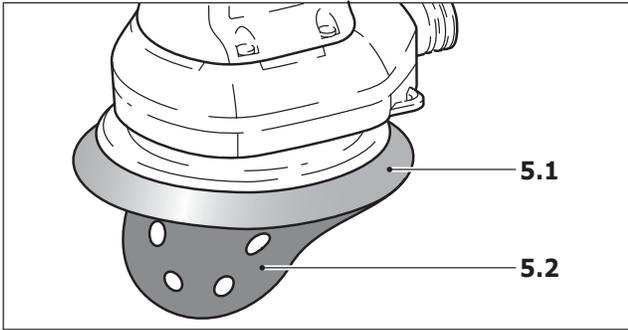
- Push the front cardboard section of the turbo-filter with the sealing lip (3.1) onto the extraction nozzle (3.8) of the filter holder
- Insert rear cardboard section with slot (3.3) onto the retaining strip (3.9) of the filter holder
- Push the filter holder with its opening (3.6) as far as it will go onto the extraction nozzle (3.5) of the machine and clamp tight by turning rotary knob (3.7).



External extraction by an extraction unit

In order to avoid frequent changing of the turbo-filter when carrying longer sanding jobs, it is possible to connect a Festool extractor to the unit instead of using inbuilt extraction.

In this case, the extraction pipe (Ø 27 mm) (4.1) of the extraction unit is connected to the suction nozzle.



Attaching sanding material

The appropriate Stickfix sanding paper and Stickfix sanding felt can be fastened quickly and easily onto the Stickfix sanding base.

The self-adhesive sanding material (5.2) is simply pressed onto the sanding base (5.1) and held safely in place by the Stickfix sanding base velcro surface.

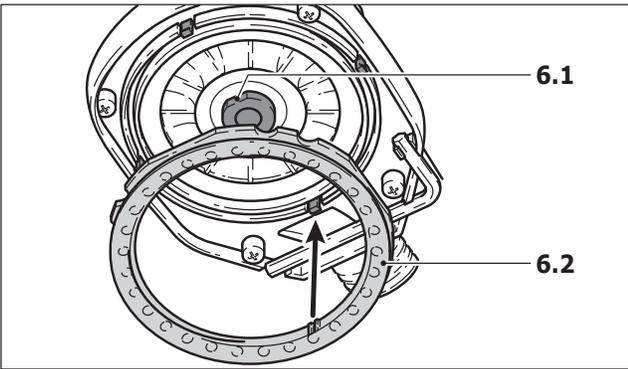
Choice and installation of the grinding disks

The appliance can be fitted with three grinding disks (5.1) of different hardness depending on the surface to be treated.

- **Hard:** coarse grinding on surfaces, grinding at edges.
- **Soft:** universal for coarse and fine grinding, for flat and curved surfaces.
- **Super-soft:** fine grinding on formed parts, curves, radii. Do not use on edges!

The grinding disks and the tool-holding fixture on the appliance are equipped with a positive holder (6.1).

⚠ CAUTION Make sure the grinding disk is correctly positioned before screwing it tight.



Working with the tool

⚠ WARNING Never overload the tool by using too much pressure! The best sanding results are achieved when applying moderate pressure.

The ETS 150/3 EQ gives the best surface quality and low abrasion. The ETS 150/5 EQ provides high abrasion with good surface quality. The sanding performance and quality depend mainly on the choice of the right sanding material. Festool offers the appropriate sanding material for all applications (see Festool catalogue or on the Internet under www.festoolusa.com).

We recommend the following settings on the rotary control (2.3) for electronic machines:

5 - 6

- sanding with max. drive
- sanding old paint
- sanding wood and veneer prior to painting
- interim sanding of paint on surfaces

4 - 5

- sanding of thinly applied primer
- sanding of wood with sanding vlies

- sanding edges on wooden parts
- smoothing primed wooden surfaces.

3 - 4

- sanding full wooden and veneer edges
- sanding in the grooves/rebates of windows and doors
- interim paint sanding on edges
- pre-sanding natural wood windows with sanding vlies
- smoothing wood surfaces with sanding felt prior to staining
- rubbing down stained surfaces with sanding vlies
- rubbing down or removing excess lime paste with sanding vlies

2 - 3

- interim paint sanding on stained surfaces
- cleaning natural wood window grooves with sanding felt

1 - 2

- sanding stained edges
- sanding thermoplastic synthetics

Maintenance and care

⚠ WARNING Any maintenance or repair work requiring the motor housing to be opened may only be carried out by an authorised service workshop. Maintenance or repair work carried out by an unauthorised person can lead to the wrong connection of the power leads or other components, which in turn can lead to accidents with serious consequences.

⚠ WARNING Always remove the plug from the mains supply socket before carrying out any work on the machine!

Always keep the machine and the ventilation slots clean.

Sanding base brakes

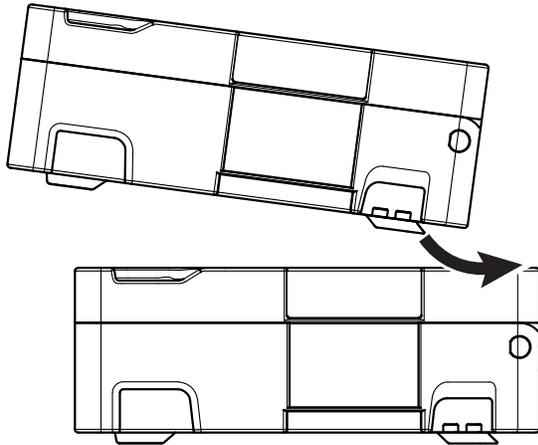
The sanding base is braked by a collar (6.2) in order to prevent any uncontrolled excessive speed of the sanding base. Because the collar wears down in the course of time, it has to be replaced by a new one (453388) as soon as there is any reduction in the braking effect.

Accessories, tools

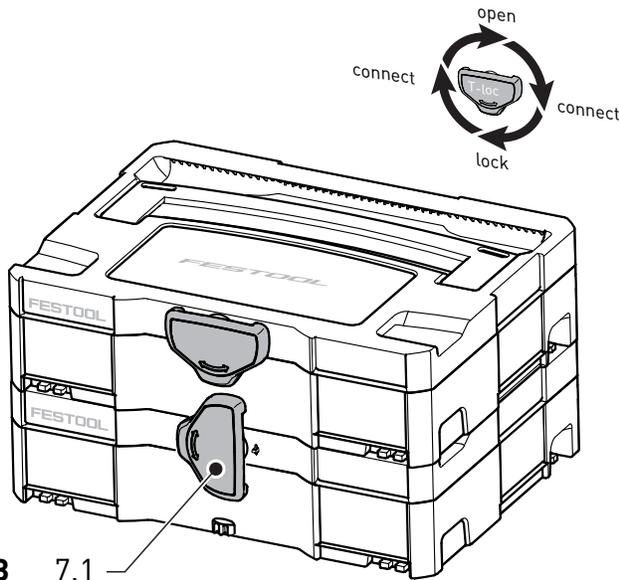
⚠ WARNING For safety reasons, only use original Festool accessories and tools!

7

The accessory and tool order number can be found in the Festool catalogue or on the Internet under www.festoolusa.com.



A



B

Systainer

Many Festool products are shipped in a unique system container, called "Systainer".

This provides protection and storage for the tool and accessories. The Systainers are stackable and can be connected together. They also can be connected atop Festool CT dust extractors.

To open the Systainer:

- Turn the T-loc [7.1] to the position .

To lock the Systainer:

- Turn the T-loc [7.1] to the position .

To connect two Systainers:

- Place one Systainer on the top of the other (Fig. 7 A).

- Turn the T-loc [7.1] to the position  or  (Fig. 7 B).

The Systainers are connected and locked.

- ① A new generation Systainer is connectable on top of a previous generation Systainer by the four latches of the previous Systainer.

Warranty

Festool offers a 3 year limited warranty, one of the strongest in the industry. This warranty is valid on the pre-condition that the tool is used and operated in compliance with the Festool operating instructions. Festool warrants that the specified tool will be free from defects in materials and workmanship for a term of 3 years from the date of purchase.

Conditions of 1 + 2 warranty

All customers receive a free extended limited warranty (1 year + 2 years = 3 Years) on new Festool power tools purchased from an authorized retailer. Festool is responsible for all shipping costs during the first year of the warranty. During the second and third year of the warranty the customer is responsible for shipping the tool to Festool. Festool will pay for return shipping to the customer using UPS Ground Service. All warranty service is valid 3

years from the date of purchase on your receipt or invoice. Proof of purchase may be required.

Excluded from the coverage under this warranty

are: normal wear and tear, damages caused by misuse, abuse, or neglect; damage caused by anything other than defects in material and workmanship. This warranty does not apply to accessory items such as circular saw blades, drill bits, router bits, jigsaw blades, sanding belts, and grinding wheels. Operating a tool at a voltage or frequency different from the tool's rating will void the warranty. This includes the usage of the tool in combination with a transformer. Festool does not condone nor support the use of any non-Festool engineered, designed, and manufactured accessories or consumables with Festool products. Use of any non-Festool products may affect performance or void the warranty. Festool is not responsible for any damages or losses incurred and user assumes all risk and responsibility with non-Festool derived products. Also excluded are "wearing parts," such as carbon brushes, lamellas of air tools, rubber collars and seals, sanding discs and pads, and Festool gear (hats and shirts).

The obligations of Festool in its sole discretion under this warranty shall be limited to repair or replacement or a refund of the purchase price for any Festool portable power tool that is found to have a defect in materials or workmanship during the warranty period. FESTOOL SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES REGARDLESS OF THE THEORY OF LAW ON WHICH THE CLAIM IS BASED. ALL WARRANTIES IMPLIED BY STATE LAW, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY LIMITED TO THE DURATION OF THREE YEARS.

Some states in the U.S. and some Canadian provinces do not allow the limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state in the U.S. and from province to province in Canada.

With the exception of any warranties implied by state or province law as limited above, the foregoing express limited warranty is exclusive and in lieu of all other warranties, guarantees, agreements, and similar obligations of Festool. Festool makes no other warranty, express or implied, for Festool portable power tools. This warranty policy is only valid for tools that are purchased in the US and Canada. Warranty policies of other countries may vary when obtaining warranty service outside the US and Canada. Some countries do exclude warranty for products bought outside their territory. Festool reserves the right to reject the repair of any tool that is not part of the US/Canada product line. No agent, representative, distributor, dealer, or employee of Festool has the authority to increase or otherwise change the obligations or limitations of this warranty..